



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 134960

TO: Maria Maryich  
Location: 2b84/2c70  
Art Unit: 1636  
October 22, 2004

Case Serial Number: 09/762648

From: P. Sheppard  
Location: Remsen Building  
Phone: (571) 272-2529

sheppard@uspto.gov

### Search Notes

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 19, 2004, 13:19:25 ; Search time 1557 Seconds  
(without alignments)  
303.723 Million cell updates/sec

Title: US-09-762-648-4  
Perfect score: 10  
Sequence: 1 UGCDGHNMD 10

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues  
Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

GenEmb1:\*  
1: gb\_ha:\*  
2: gb\_hg:\*  
3: gb\_in:\*  
4: gb\_om:\*  
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6: gb\_pat:\*  
7: gb\_ph:\*  
8: gb\_pl:\*  
9: gb\_pr:\*  
10: gb\_ro:\*  
11: gb\_ats:\*  
12: gb\_ey:\*  
13: gb\_un:\*  
14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6.2	62.0	10	6	ARI07856 Sequence
2	6.2	62.0	10	6	BD238641 Sequence
3	6.2	62.0	10	6	BD238694 Sequence
4	6.2	62.0	10	6	CQ766701 Sequence
5	6.2	62.0	10	6	CQ828869 Sequence
6	6.2	62.0	10	6	AR234537 Sequence
7	6.2	62.0	10	6	AR303297 Sequence
8	6.2	62.0	11	6	AI3081 Nucleotide
9	6.2	62.0	11	6	AR074496 Sequence
10	6.2	62.0	11	6	AR081176 Sequence
11	6.2	62.0	11	6	AR085373 Sequence
12	6.2	62.0	11	6	AR088121 Sequence
13	6.2	62.0	11	6	ARI04280 Sequence
14	6.2	62.0	11	6	ARI33988 Sequence
15	6.2	62.0	11	6	ARI40307 Sequence
16	6.2	62.0	11	6	ARI40585 Sequence
17	6.2	62.0	11	6	ARI43542 Sequence
18	6.2	62.0	11	6	ARI71448 Sequence
19	6.2	62.0	11	6	ARI71619 Sequence

20	6.2	62.0	11	6	BD243209 MN gene a
21	6.2	62.0	11	6	CQ828868 Sequence
22	6.2	62.0	11	6	CQ833562 Sequence
23	6.2	62.0	11	6	CQ836876 Sequence
24	6.2	62.0	11	6	CQ837108 Sequence
25	6.2	62.0	11	6	CQ837113 Sequence
26	6.2	62.0	11	6	CQ837507 Sequence
27	6.2	62.0	11	6	AR301722 Sequence
28	6.2	62.0	11	6	AX225318 Sequence
29	6.2	62.0	11	6	AX339223 Sequence
30	6.2	62.0	11	6	AX393232 Sequence
31	6.2	62.0	11	6	AX470780 Sequence
32	6.2	62.0	11	6	AX470844 Sequence
33	6.2	62.0	11	6	AX471086 Sequence
34	6.2	62.0	11	6	AX624499 Sequence
35	6.2	62.0	11	6	AX627640 Sequence
36	6.2	62.0	11	6	AX627775 Sequence
37	6.2	62.0	11	6	AX627871 Sequence
38	6.2	62.0	11	6	AX628442 Sequence
39	6.2	62.0	11	6	AX629146 Sequence
40	6.2	62.0	11	6	AX629397 Sequence
41	6.2	62.0	11	6	AX630172 Sequence
42	6.2	62.0	11	6	AX630221 Sequence
43	6.2	62.0	11	6	AX630249 Sequence
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## ALIGNMENTS

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ARI07856  
LOCUS ARI07856 10 bp DNA linear PAT 14-FEB-2001  
DEFINITION Sequence 102 from patent US 6110667.  
ACCESSION ARI07856  
VERSION ARI07856.1 GI:12823343  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 10)  
AUTHORS Lopez-Nieto C, Eduardo, and Nigam S, Kumar.  
TITLE Processes, apparatus and compositions for characterizing nucleotide sequences based on K-tuple analysis  
JOURNAL Patent: US 6110667-A 102 29-AUG-2000;  
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LOCUS BD238641 10 bp DNA linear PAT 17-JUL-2003  
DEFINITION Preparation and use of superior vaccines.  
ACCESSION BD238641  
VERSION BD238641.1 GI:33048411  
KEYWORDS UP 2002534056-A/59.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
REFERENCE 1 (bases 1 to 10)  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS Robert, B.L. and Shankara, S.  
 TITLE Preparation and use of superior vaccines  
 JOURNAL Patent: JP 2002534056-A 59 15-OCT-2002;  
 GENZYME CORP

COMMENT OS Homo sapiens (human)  
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 19-JUN-1998 US 60/090041, 19-JUN-1998 US 60/089853 PR  
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 19-JUN-1998 US 60/090035, 19-JUN-1998 US 60/089993 PR  
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 19-JUN-1998 US 60/090078, 19-JUN-1998 US 60/090047 PR  
 08-DEC-1998 US 60/090076, 19-JUN-1998 US 60/090045 PR  
 08-DEC-1998 US 60/111715  
 PI BRUCE L. ROBERTS, SRINIVAS SHANKARA  
 PC C12N1/19, C12N5/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC  
 C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC  
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 DEFINITION BD238894  
 ACCESSION BD238894 GI:33048664  
 VERSION UP 2002534056-A/312.  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 10)  
 Robert, B.L. and Shankara, S.  
 TITLE Preparation and use of superior vaccines  
 JOURNAL Patent: JP 2002534056-A 312 15-OCT-2002;  
 GENZYME CORP

COMMENT OS Homo sapiens (human)  
 PN JP 2002534056-A/312  
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 19-JUN-1998 US 60/090042, 19-JUN-1998 US 60/090036 PR  
 19-JUN-1998 US 60/090044, 19-JUN-1998 US 60/089844 PR  
 19-JUN-1998 US 60/090080, 19-JUN-1998 US 60/089843 PR  
 19-JUN-1998 US 60/089994, 19-JUN-1998 US 60/090077 PR  
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 PI BRUCE L. ROBERTS, SRINIVAS SHANKARA  
 PC C12N1/19, C12N5/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC  
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 CQ766701 10 bp DNA linear PAT 03-MAR-2004  
 LOCUS Sequence 57 from Patent WO2004005541.  
 DEFINITION CQ766701  
 ACCESSION CQ766701 GI:44908931  
 VERSION CQ766701.1 GI:44908931  
 KEYWORDS  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 ORGANISM artificial sequences.  
 1  
 van Broeckhoven, C., de Jonghe, P., Timmerman, V. and Verhoeven, K.  
 TITLE Diagnostic tests for the detection of peripheral neuropathy  
 JOURNAL Patent: WO 2004005541-A 57 15-JUN-2004;  
 Vlaams Interuniversitair Instituut voor Biotechnologie vzw, w. (BE)

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 CQ828869/c 10 bp DNA linear PAT 05-JUL-2004  
 LOCUS Sequence 587 from Patent WO2004053120.  
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ACCESSION   CQ828669
VERSION     CQ828669.1  GI:49732352
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE   1
  AUTHORS   Weihe, E., Bieller, A. and Schaefer, M.K.
  TITLE     Regulatory elements in the 5' region of the vrl gene
  JOURNAL   Patent: WO 2004053120-A 587 24-JUN-2004;
            Gruenthal GmbH (DE)

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LOCUS       AR234537      10 bp      DNA      linear      PAT 20-DEC-2002
DEFINITION  Sequence 71 from patent US 6458584.
ACCESSION   AR234537
VERSION     AR234537.1  GI:27277241
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 10)
  AUTHORS   Mirzabekov, A., Guschin, D.Y., Chik, V., Drobyshev, A., Fotin, A.,
            Yershov, G. and Lysoy, Y.
  TITLE     Customized oligonucleotide microchips that convert multiple genetic
            information to simple patterns, are portable and reusable
  JOURNAL   Patent: US 6458584-A 71 01-OCT-2002;
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DEFINITION  Sequence 22 from patent US 6544736.
ACCESSION   AR303297
VERSION     AR303297.1  GI:31692073
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 10)
  AUTHORS   Shimamoto, A., Fumitachi, Y., Shibata, Y., Funaki, H., Ohara, E. and
            Watabiki, M.
  TITLE     Method for synthesizing cDNA from mRNA sample
  JOURNAL   Patent: US 6544736-A 22 08-APR-2003;
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TITLE       Method for synthesizing cDNA from mRNA sample
JOURNAL     Patent: US 6544736-A 22 08-APR-2003;
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LOCUS       A13081      11 bp      DNA      linear      PAT 08-FEB-1994
DEFINITION  Nucleotide sequence 36 from patent number EP0353188.
ACCESSION   A13081
VERSION     A13081.1  GI:489599
KEYWORDS
SOURCE      unidentified
ORGANISM    unidentified
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REFERENCE   1 (bases 1 to 11)
  AUTHORS   Heim, J., Meyhack, B. and Visser, J.
  TITLE     Novel expression system
  JOURNAL   Patent: EP 0353188-A 36 31-JAN-1990;
            CIBA-GEIGY AG
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ACCESSION   AR074496
VERSION     AR074496.1  GI:10001251
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
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REFERENCE   1 (bases 1 to 11)
  AUTHORS   Zavada, J., Pastorekova, S. and Pastorek, J.
  TITLE     Method of inhibiting tumor growth using antibodies to MN protein
  JOURNAL   Patent: US 5955075-A 75 21-SEP-1999;
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	VERSION	AR081176.1 GI:10007904			
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	ORGANISM	Unclassified.			
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	AUTHORS	Zavada,J., Pastorekova,S. and Pastorex,J.			
	TITLE	MN proteins, polypeptide, fusion proteins and fusion polypeptides			
	JOURNAL	Patent: US 5972353-A 75 26-OCT-1999;			
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	VERSION	AR085373.1 GI:10012142			
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	SOURCE	. Unknown.			
	ORGANISM	Unclassified.			
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	AUTHORS	Zavada,J. Pastorekova,S. and Pastorex,J.			
	TITLE	MN-specific antibodies and hydriomas			
	JOURNAL	Patent: US 5981711-A 75 09-NOV-1999;			
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	VERSION	AR088121.1 GI:10014884			
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	SOURCE	. Unknown.			
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AUTHORS	Zavada, J., Pastorekova, S. and Pastorek, J.
TITLE	Immunological methods of detecting MN proteins and MN polypeptides
JOURNAL	Patent: US 5989838-A 75 23-NOV-1999;
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ACCESSION	AR104280
VERSION	AR104280.1 GI:12816988
KEYWORDS	Unknown.
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	1 (bases 1 to 11)
AUTHORS	Zavada, J., Pastorekova, S. and Pastorek, J.
TITLE	Detection and quantitation of MN-specific antibodies
JOURNAL	Patent: US 6093548-A 75 25-JUL-2000;
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DEFINITION	Sequence 99 from patent US 6207417.
ACCESSION	AR139988
VERSION	AR139988.1 GI:1482484
KEYWORDS	Unknown.
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	1 (bases 1 to 11)
AUTHORS	Zeebo, K.M., Bosselman, R.A., Suggs, S.V. and Martin, F.H.
TITLE	DNA encoding stem cell factor
JOURNAL	Patent: US 6207417-A 99 27-MAR-2001;
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DEFINITION Sequence 99 from patent US 6207454.

ACCESSION ARI40307  
VERSION ARI40307.1 GI:14482803

KEYWORDS  
SOURCE Unknown.

ORGANISM Unknown.  
Unclassified.

REFERENCE 1 (bases 1 to 11)  
AUTHORS Zeebo,K.M., Bosseiman,R.A., Suggs,S.V. and Martin,F.H.  
TITLE Method for enhancing the efficiency of gene transfer with stem cell  
factor (SCF) polypeptide

JOURNAL Patent: US 6207454-A 99 27-MAR-2001;  
FEATURES Location/Qualifiers

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Job time : 1560 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 19, 2004, 11:15:35 : Search time 230 Seconds  
(without alignments)  
181.015 Million cell updates/sec

Title: US-09-762-648-4  
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Maximum Match 100%  
Listing first 45 summaries

Database : N\_Geneseq\_23Sep04:\*  
1: geneeqn1980s:\*  
2: geneeqn1990s:\*  
3: geneeqn2000s:\*  
4: geneeqn2001as:\*  
5: geneeqn2001bs:\*  
6: geneeqn2002as:\*  
7: geneeqn2002bs:\*  
8: geneeqn2003as:\*  
9: geneeqn2003bs:\*  
10: geneeqn2003cs:\*  
11: geneeqn2003ds:\*  
12: geneeqn2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	6.2	62.0	10	2	AAQ96908 HIV-1 NL4
C 2	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 3	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 4	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 5	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 6	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 7	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 8	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 9	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 10	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 11	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 12	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 13	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 14	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 15	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 16	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 17	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 18	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 19	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 20	6.2	62.0	10	2	AAQ96474 HIV-1 NL4
C 21	6.2	62.0	10	2	AAQ96474 HIV-1 NL4

C 22	6.2	62.0	10	6	ABK92648 Primer-ex
C 23	6.2	62.0	10	6	ABL52050 Human SLC
C 24	6.2	62.0	10	6	AAK16764 Human APO
C 25	6.2	62.0	10	6	ABK96151 Human CYP
C 26	6.2	62.0	10	6	ADH22211 Primer ex
C 27	6.2	62.0	10	10	ADD71266 Mouse ET
C 28	6.2	62.0	10	10	ADD71292 Human ET
C 29	6.2	62.0	10	10	ACA63200 Human ALD
C 30	6.2	62.0	10	10	ABX15890 Human BUB
C 31	6.2	62.0	10	12	ADN89079 Hyperlipi
C 32	6.2	62.0	10	12	ADQ30294 Human VRI
C 33	6.2	62.0	11	3	AAI18993 Murine MR
C 34	6.2	62.0	11	3	AAI18993 Rat stem
C 35	6.2	62.0	11	3	AAI16597 Human MN
C 36	6.2	62.0	11	3	AAI16597 Human MN
C 37	6.2	62.0	11	3	AAI16597 Human MN
C 38	6.2	62.0	11	4	AAH41359 Recombina
C 39	6.2	62.0	11	4	AAH41359 Synthetic
C 40	6.2	62.0	11	4	AAH41359 Synthetic
C 41	6.2	62.0	11	5	AAH23917 Stem cell
C 42	6.2	62.0	11	5	AAH23917 Synthetic
C 43	6.2	62.0	11	5	AAH23917 Synthetic
C 44	6.2	62.0	11	5	AAH23917 Synthetic
C 45	6.2	62.0	11	6	ABQ86602 Human SKI

## ALIGNMENTS

RESULT 1	AAQ96908/C	AAQ96908 standard; DNA; 10 BP.
ID	AAQ96908	AAQ96908
AC	AAQ96908	AAQ96908
XX	AAQ96908	AAQ96908
DT	16-OCT-2003 (revised)	
DT	26-MAR-1996 (first entry)	
XX	HIV-1 NL4-3 nef gene nucleotide deletion 503.	
XX	HIV-1; AIDS; attenuation; vaccine; nef gene; avirulence; ss.	
OS	Human immunodeficiency virus 1.	
XX	MO9521912-AL.	
PD	17-AUG-1995.	
XX	14-FEB-1995; 95MO-AU000063.	
XX	14-FEB-1994; 94AU-00003864.	
PR	21-FEB-1994; 94AU-00004002.	
PR	23-DEC-1994; 94AU-00000284.	
PA	(MACE-) MACFARLANE BURNET CENT MEDICAL.	
PA	(AURE-) AUSTRALIAN RED CROSS SOC.	
XX	Deacon NJ, Learmont JC, Mcphee DA, Crowe S, Cooper D;	
XX	WPI, 1995-293115/38.	
DR	New non-pathogenic HIV-1 strain carrying a deletion in its nef gene or	
PT	LTR region - can be used in a vaccine to inhibit/reduce productive	
PT	infection in an individual by a pathogenic strain.	
XX	Claim 13; Page 194; 301pp; English.	
XX	Attenuation of pathogenic HIV-1 strain NL4-3 involves deletion of 1 or	
CC	more decaunucleotides (AAQ96406-Q97018) from the nef gene and/or 1 or more	
CC	decaunucleotides (AAQ97019-Q97166) from the LTR region; the sequence of	
CC	AAQ96406 corresponds to nucleotides 1-10 of the nef gene (AAQ96141). The	
CC	resulting avirulent HIV strains are still capable of inducing an immune	
CC	response in humans, and enable the generation of therapeutic, diagnostic	

CC and targeting agents against HIV-1 infection. (Updated on 16-OCT-2003 to  
 CC standardise OS field)  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 62.0%; Score 6.2; DB 2; Length 10;  
 Best Local Similarity 40.0%; Pred. No. 6.7e+05;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGCHNMD 10  
 :|||: :  
 Db 10 TGCTGGCTCA 1

## RESULT 2

AA096474/C  
 ID AA096474 standard; DNA; 10 BP.

XX AA096474;

AC 16-OCT-2003 (revised)

DT 20-MAR-1996 (first entry)

XX HIV-1 NL4-3 nef gene nucleotide deletion 69.

DE HIV-1; AIDS; attenuation; vaccine; nef gene; avirulence; ss.

XX Human immunodeficiency virus 1.

XX WO9521912-A1.

XX 17-AUG-1995.

XX 14-FEB-1995; 95WO-AU000063.

XX 14-FEB-1994; 94AU-00003864.

XX 21-FEB-1994; 94AU-00004002.

XX 23-DEC-1994; 94AU-00000284.

XX (MACF-) MACFARLANE BURNET CENT MEDICAL.

XX (AURE-) AUSTRALIAN RED CROSS SOC.

XX Deacon NJ, Learmont JC, Mcphee DA, Crowe S, Cooper D;

XX WPI; 1995-293115/38.

XX New non-pathogenic HIV-1 strain carrying a deletion in its nef gene or  
 PT LTR region - can be used in a vaccine to inhibit/reduce productive  
 XX infection in an individual by a pathogenic strain.

XX Claim 13; Page 189; 301pp; English.

XX Attenuation of pathogenic HIV-1 strain NL4-3 involves deletion of 1 or  
 CC more deuncleotides (AA096406-Q97018) from the nef gene and/or 1 or more  
 CC deuncleotides (AA097019-Q97166) from the LTR region; the sequence of  
 CC AA096406 corresponds to nucleotides 1-10 of the nef gene (AA096141). The  
 CC resulting avirulent HIV strains are still capable of inducing an immune  
 CC response in humans, and enable the generation of therapeutic, diagnostic  
 CC and targeting agents against HIV-1 infection. (Updated on 16-OCT-2003 to  
 CC standardise OS field)

XX Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

QY Query Match 62.0%; Score 6.2; DB 2; Length 10;  
 Best Local Similarity 40.0%; Pred. No. 6.7e+05;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGCHNMD 10  
 :|||: :  
 Db 10 TGCTGGCTCA 1

RESULT 3

AAT29372  
 ID AAT29372 standard; DNA; 10 BP.

XX AAT29372;

AC 25-MAR-2003 (revised)

DT 28-JUN-1996 (first entry)

XX 5'-primer for mammalian G-protein coupled receptor coding sequences.

DE 5'-primer; mammalian; G-protein coupled receptor; PCR primer kit;

XX characterisation; biological samples; PCR amplification; indexing;

XX identification; cloning; analysis; genes; genome mapping;

XX disease diagnosis; ss.

XX Synthetic.

XX WO9531574-A1.

XX 23-NOV-1995.

XX 12-MAY-1995; 95WO-US006032.

XX 16-MAY-1994; 94US-00242887.

XX (BGM ) BRIGHAM & WOMENS HOSPITAL.

XX Lopezleco CE, Nigam SK;

XX WPI; 1996-010958/01.

XX Claim 46; Page 55; 72pp; English.

XX The 5'-primers AAT29262-382, and the complementary 3'-primers derived  
 CC from them, which target mammalian G-protein coupled receptor coding  
 CC sequences, together comprise a PCR primer kit. The kit is used in a new  
 CC method for the characterisation of nucleic acid sequences obtd. from  
 CC mammalian biological samples, which comprises PCR amplification and  
 CC indexing of the prods. w.r.t the primer pair that hybridised to its  
 CC delineating subsequences. The method may be used in the identification,  
 CC cloning and analysis of genes, e.g. in genome mapping, and disease  
 CC diagnosis. (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 10 BP; 1 A; 2 C; 3 G; 4 T; 0 U; 0 Other;

QY Query Match 62.0%; Score 6.2; DB 2; Length 10;  
 Best Local Similarity 40.0%; Pred. No. 6.7e+05;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGCHNMD 10  
 :|||: :  
 Db 1 TGCTGGCTCAT 10

RESULT 4

AAV45971  
 ID AAV45971 standard; DNA; 10 BP.

XX AAV45971;

AC 08-OCT-1998 (first entry)

DT Biosensor oligonucleotide #71.

XX Biosensor; microchip; detection; identification; hybridisation; ss.

XX Synthetic.

XX WO9828444-A2.

```

XX 02-JUL-1998.
PD 19-DEC-1997; 97WO-US023778.
XX 23-DEC-1996; 96US-00780026.
PR (UYCH-) UNIV CHICAGO.
XX Mitzabekov A, Guschin DY, Shik V, Potin A, Yezhov G, Lysov Y;
PI WPI; 1998-377672/32.
XX New customised oligonucleotide microchips - comprising a matrix of
PT oligonucleotides for hybridisation for identifying nucleic acid sequences
PT in sample.
XX Claim 22; Fig 9; 76pp; English.
XX AAV45901-V45974 are oligonucleotides which are used as biosensors in a
CC method for using a microchip to identify a sequence in a nucleic acid of
CC a sample. Such chips can be used to identifying nucleotide sequences in
CC samples such as air, water, soil, blood, cells, tissue, tissue culture
CC and food. The same microchip can be used for hybridisation for more than
CC 20-30 times, without any noticeable deterioration of the hybridisation
CC signal. Also, parallel hybridisation of nucleic acids in a sample to many
CC oligonucleotides on a microchip is possible, allowing replication and
CC standardisation
CC
SQ Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 U; 0 Other;
XX
Query Match 62.0%; Score 6.2; DB 2; Length 10;
Best Local Similarity 40.0%; Pred. No. 6.7e+05;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
QY 1 UGCDGSHMD 10
Db 1 TGGCGGTCA 10
XX
RESULT 5
AA32311
ID AAX32311 standard; RNA; 10 BP.
XX
AC AAX32311;
XX
DT 16-JUN-1999 (first entry)
XX
DE Radioactivator isolate no: 7.
XX
XX Transcriptional regulator; DNA-binding moiety; promoter; transcription;
KW initiation; elongation; gene expression; cancer; anemia; erythrocyte;
KM riboactivator; R10 library; ss.
XX
OS Synthetic.
XX
XX WO9910487-A2.
XX
XX 04-MAR-1999.
XX
XX 26-AUG-1998; 98WO-US017691.
XX
XX 27-AUG-1997; 97US-0056857P.
XX
XX (HARD ) HARVARD COLLEGE.
PA (UYBO-) UNIV BOSTON.
XX
XX Jarrell KA, Saha S, Ptashne M;
PI WPI; 1999-204663/17.
XX
XX New RNA transcriptional regulators - used for modulating gene expression
PT in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer

```

```

PT or anaemia.
XX
XX Example 2; Page 23; 57pp; English.
XX
XX The invention provides novel transcriptional regulators (TR) that are
CC comprised of RNA molecules. The TR comprises a DNA-binding moiety and an
CC RNA linked to the DNA binding moiety, where the RNA has TR activity.
CC Methods of identifying such RNA TRs are also provided. The RNA TRs alter
CC the rate and/or the extent of transcription from a promoter when they are
CC delivered to a site that is operationally linked to that promoter. The
CC TRs can affect transcription initiation, elongation, reinitiation,
CC termination and pausing. They can be used in e.g. bacterial cells,
CC cells, mammalian cells, insect cells, plant cells, reptile cells, yeast
CC celanorate cells, and protozoan cells. They can be used as agents for
CC controlling gene expression, e.g. to modulate gene expression in vivo in
CC order to alleviate or correct a disease state, e.g. cancer, anemia and
CC other disorders related to erythrocyte production. Sequences AAX32305-312
CC represent radioactivator isolate sequences obtained from a R10 library
XX
SQ Sequence 10 BP; 2 A; 2 C; 3 G; 0 T; 3 U; 0 Other;
XX
Query Match 62.0%; Score 6.2; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 6.7e+05;
Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1 UGCDGSHMD 10
Db 1 UGCDGGAUCA 10
XX
RESULT 6
AAX32304
ID AAX32304 standard; RNA; 10 BP.
XX
AC AAX32304;
XX
DT 16-JUN-1999 (first entry)
XX
DE Transcriptional regulatory RNA sequence.
XX
XX Transcriptional regulator; DNA-binding moiety; promoter; transcription;
KW initiation; elongation; gene expression; cancer; anemia; erythrocyte; ss.
XX
OS Synthetic.
XX
XX WO9910487-A2.
XX
XX 04-MAR-1999.
XX
XX 26-AUG-1998; 98WO-US017691.
XX
XX 27-AUG-1997; 97US-0056857P.
XX
XX (HARD ) HARVARD COLLEGE.
PA (UYBO-) UNIV BOSTON.
XX
XX Jarrell KA, Saha S, Ptashne M;
PI WPI; 1999-204663/17.
XX
XX New RNA transcriptional regulators - used for modulating gene expression
PT in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer
PT or anaemia.
XX
XX Claim 9; Page 45; 57pp; English.
XX
XX The invention provides novel transcriptional regulators (TR) that are
CC comprised of RNA molecules. The TR comprises a DNA-binding moiety and an
CC RNA linked to the DNA binding moiety, where the RNA has TR activity.
CC Methods of identifying such RNA TRs are also provided. The RNA TRs alter
CC the rate and/or the extent of transcription from a promoter when they are
CC delivered to a site that is operationally linked to that promoter. The
CC TRs can affect transcription initiation, elongation, reinitiation,

```

CC termination and pausing. They can be used in e.g. bacterial cells, yeast  
CC cells, mammalian cells, insect cells, plant cells, reptile cells,  
CC ctenophore cells, and protozoan cells. They can be used as agents for  
CC controlling gene expression, e.g. to modulate gene expression in vivo in  
CC order to alleviate or correct a disease state, e.g. cancer, anemia and  
CC other disorders related to erythrocyte production. The present sequence  
CC represents a transcriptional regulatory RNA sequence

XX  
SQ Sequence 10 BP; 0 A; 1 C; 3 G; 0 T; 1 U; 5 Other;

Query Match Best Local Similarity 62.0%; Score 6.2; DB 2; Length 10;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UGCDGSHNMD 10  
DB 1 UGCDGSHNMD 10

RESULT 7  
AA32307

AA32307 standard; RNA; 10 BP.

XX  
AC AAX32307;

XX  
DT 16-JUN-1999 (first entry)

XX  
DE Radioactivator isolate no: 3.

XX  
KW Transcriptional regulator; DNA-binding moiety; promoter; transcription;  
KW initiation; elongation; gene expression; cancer; anemia; erythrocyte;  
KW riboactivator; R10 library; ss.

XX  
OS Synthetic.

XX  
PN WO910487-A2.

XX  
PD 04-MAR-1999.

XX  
PF 26-AUG-1998; 98WO-US017691.

XX  
PR 27-AUG-1997; 97US-0056857P.

XX  
PA (HARD) HARVARD COLLEGE.

XX  
PA (UYBO-) UNIV BOSTON.

XX  
PI Jarrell KA, Saha S, Ptashne M;

XX  
DR WPI; 1999-204663/17.

XX  
PT New RNA transcriptional regulators - used for modulating gene expression  
PT in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer  
PT or anemia.

XX  
PS Example 2; Page 23; 57pp; English.

XX  
CC The invention provides novel transcriptional regulators (TR) that are  
CC comprised of RNA molecules. The TR comprises a DNA-binding moiety and an  
CC RNA linked to the DNA binding moiety, where the RNA has TR activity.  
CC Methods of identifying such RNA TRs are also provided. The RNA TRs alter  
CC the rate and/or the extent of transcription from a promoter when they are  
CC delivered to a site that is operationally linked to that promoter. The  
CC TRs can affect transcription initiation, elongation, reinitiation. The  
CC termination and pausing. They can be used in e.g. bacterial cells, yeast  
CC cells, mammalian cells, insect cells, plant cells, reptile cells,  
CC ctenophore cells, and protozoan cells. They can be used as agents for  
CC controlling gene expression, e.g. to modulate gene expression in vivo in  
CC order to alleviate or correct a disease state, e.g. cancer, anemia and  
CC other disorders related to erythrocyte production. Sequences AAX32305-312  
CC represent radioactivator isolate sequences obtained from a R10 library

XX  
SQ Sequence 10 BP; 1 A; 2 C; 4 G; 0 T; 3 U; 0 Other;

Query Match Best Local Similarity 62.0%; Score 6.2; DB 2; Length 10;  
Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGSHNMD 10  
DB 1 UGCGGUCACU 10

RESULT 8  
AAX32305

ID AAX32305 standard; RNA; 10 BP.

XX  
AC AAX32305;

XX  
DT 16-JUN-1999 (first entry)

XX  
DE Radioactivator isolate no: 1.

XX  
KW Transcriptional regulator; DNA-binding moiety; promoter; transcription;  
KW initiation; elongation; gene expression; cancer; anemia; erythrocyte;  
KW riboactivator; R10 library; ss.

XX  
OS Synthetic.

XX  
PN WO910487-A2.

XX  
PD 04-MAR-1999.

XX  
PF 26-AUG-1998; 98WO-US017691.

XX  
PR 27-AUG-1997; 97US-0056857P.

XX  
PA (HARD) HARVARD COLLEGE.

XX  
PA (UYBO-) UNIV BOSTON.

XX  
PI Jarrell KA, Saha S, Ptashne M;

XX  
DR WPI; 1999-204663/17.

XX  
PT New RNA transcriptional regulators - used for modulating gene expression  
PT in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer  
PT or anemia.

XX  
PS Example 2; Page 23; 57pp; English.

XX  
CC The invention provides novel transcriptional regulators (TR) that are  
CC comprised of RNA molecules. The TR comprises a DNA-binding moiety and an  
CC RNA linked to the DNA binding moiety, where the RNA has TR activity.  
CC Methods of identifying such RNA TRs are also provided. The RNA TRs alter  
CC the rate and/or the extent of transcription from a promoter when they are  
CC delivered to a site that is operationally linked to that promoter. The  
CC TRs can affect transcription initiation, elongation, reinitiation. The  
CC termination and pausing. They can be used in e.g. bacterial cells, yeast  
CC cells, mammalian cells, insect cells, plant cells, reptile cells,  
CC ctenophore cells, and protozoan cells. They can be used as agents for  
CC controlling gene expression, e.g. to modulate gene expression in vivo in  
CC order to alleviate or correct a disease state, e.g. cancer, anemia and  
CC other disorders related to erythrocyte production. Sequences AAX32305-312  
CC represent radioactivator isolate sequences obtained from a R10 library

XX  
SQ Sequence 10 BP; 1 A; 2 C; 5 G; 0 T; 2 U; 0 Other;

Query Match Best Local Similarity 62.0%; Score 6.2; DB 2; Length 10;  
Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGSHNMD 10  
DB 1 UGCGGUCACG 10

RESULT 9

```

AAK32309
ID AAK32309 standard; RNA; 10 BP.
XX
AC AAK32309;
XX
DT 16-JUN-1999 (first entry)
XX
DE Radioactivator isolate no: 5.
XX
KW Transcriptional regulator; DNA-binding moiety; promoter; transcription;
KW initiation; elongation; gene expression; cancer; anemia; erythrocyte;
KW riboactivator; R10 library; ss.
XX
OS Synthetic.
XX
PN WO9910487-A2.
XX
PD 04-MAR-1999.
XX
PF 26-AUG-1998; 98WO-US017691.
XX
PR 27-AUG-1997; 97US-0056857P.
XX
PA (HARD ) HARVARD COLLEGE.
XX
PA (UYBO-) UNIV BOSTON.
XX
PI Jarrell KA, Saha S, Ptashne M;
XX
DR WPI; 1999-204663/17.
XX
PT New RNA transcriptional regulators - used for modulating gene expression
PT in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer
PT or anaemia.
XX
PS Example 2; Page 23; 57pp; English.
XX
-CC The invention provides novel transcriptional regulators (TR) that are
-CC comprised of RNA molecules. The TR comprises a DNA-binding moiety and an
-CC RNA linked to the DNA binding moiety, where the RNA has TR activity.
-CC Methods of identifying such RNA TRs are also provided. The RNA TRs alter
-CC the rate and/or the extent of transcription from a promoter when they are
-CC delivered to a site that is operationally linked to that promoter. The
-CC TRs can affect transcription initiation, elongation, reinitiation,
-CC termination and pausing. They can be used in e.g. bacterial cells, yeast
-CC cells, mammalian cells, insect cells, plant cells, reptile cells,
-CC celenorate cells, and protozoan cells. They can be used as agents for
-CC controlling gene expression, e.g. to modulate gene expression in vivo in
-CC order to alleviate or correct a disease state, e.g. cancer, anemia and
-CC other disorders related to erythrocyte production. Sequences AAK32305-312
-CC represent radioactivator isolate sequences obtained from a R10 library
XX
SQ Sequence 10 BP; 2 A; 2 C; 4 G; 0 T; 2 U; 0 Other;

Query Match 62.0%; Score 6.2; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 6.7e+05;
Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCGGHNMD 10
   |||:::
Db 1 UGCGGGAUCA 10

RESULT 10
AAK32310
ID AAK32310 standard; RNA; 10 BP.
XX
AC AAK32310;
XX
DT 16-JUN-1999 (first entry)
XX
DE Radioactivator isolate no: 6.
XX
KW Transcriptional regulator; DNA-binding moiety; promoter; transcription;
KW

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```

KW initiation; elongation; gene expression; cancer; anemia; erythrocyte;
KW riboactivator; R10 library; ss.
XX
OS Synthetic.
XX
PN WO9910487-A2.
XX
PD 04-MAR-1999.
XX
PF 26-AUG-1998; 98WO-US017691.
XX
PR 27-AUG-1997; 97US-0056857P.
XX
PA (HARD ) HARVARD COLLEGE.
XX
PA (UYBO-) UNIV BOSTON.
XX
PI Jarrell KA, Saha S, Ptashne M;
XX
DR WPI; 1999-204663/17.
XX
PT New RNA transcriptional regulators - used for modulating gene expression
PT in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer
PT or anaemia.
XX
PS Example 2; Page 23; 57pp; English.
XX
-CC The invention provides novel transcriptional regulators (TR) that are
-CC comprised of RNA molecules. The TR comprises a DNA-binding moiety and an
-CC RNA linked to the DNA binding moiety, where the RNA has TR activity.
-CC Methods of identifying such RNA TRs are also provided. The RNA TRs alter
-CC the rate and/or the extent of transcription from a promoter when they are
-CC delivered to a site that is operationally linked to that promoter. The
-CC TRs can affect transcription initiation, elongation, reinitiation,
-CC termination and pausing. They can be used in e.g. bacterial cells, yeast
-CC cells, mammalian cells, insect cells, plant cells, reptile cells,
-CC celenorate cells, and protozoan cells. They can be used as agents for
-CC controlling gene expression, e.g. to modulate gene expression in vivo in
-CC order to alleviate or correct a disease state, e.g. cancer, anemia and
-CC other disorders related to erythrocyte production. Sequences AAK32305-312
-CC represent radioactivator isolate sequences obtained from a R10 library
XX
SQ Sequence 10 BP; 1 A; 2 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 62.0%; Score 6.2; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 6.7e+05;
Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCGGHNMD 10
   |||:::
Db 1 UGCGAGUUCG 10

RESULT 11
AAK32308
ID AAK32308 standard; RNA; 10 BP.
XX
AC AAK32308;
XX
DT 16-JUN-1999 (first entry)
XX
DE Radioactivator isolate no: 4.
XX
KW Transcriptional regulator; DNA-binding moiety; promoter; transcription;
KW initiation; elongation; gene expression; cancer; anemia; erythrocyte;
KW riboactivator; R10 library; ss.
XX
OS Synthetic.
XX
PN WO9910487-A2.
XX
PD 04-MAR-1999.
XX
PF 26-AUG-1998; 98WO-US017691.

```

```

XX 27-AUG-1997; 97US-0056857P.
XX
XX (HARD ) HARVARD COLLEGE.
XX (UTBO-) UNIV BOSTON.
XX
XX Jarrell KA, Saha S, Ptasne M;
XX WPI; 1999-204663/17.
XX
XX New RNA transcriptional regulators - used for modulating gene expression
XX in vitro or in vivo, e.g. as therapeutic agents for treating e.g. cancer
XX or anaemia.
XX
XX Example 2; Page 23; 57dp; English.
XX
XX The invention provides novel transcriptional regulators (TR) that are
XX comprised of RNA molecules. The TR comprises a DNA-binding moiety and an
XX RNA linked to the DNA binding moiety, where the RNA has TR activity.
XX Methods of identifying such RNA TRs are also provided. The RNA TRs alter
XX the rate and/or the extent of transcription from a promoter when they are
XX delivered to a site that is operationally linked to that promoter. The
XX TRs can affect transcription initiation, elongation, reinitiation,
XX termination and pausing. They can be used in e.g. bacterial cells, yeast
XX cells, mammalian cells, insect cells, plant cells, reptile cells,
XX celomorate cells, and protozoan cells. They can be used as agents for
XX controlling gene expression, e.g. to modulate gene expression in vivo in
XX order to alleviate or correct a disease state, e.g. cancer, anaemia and
XX other disorders related to erythrocyte production. Sequences AAX32305-312
XX represent radioactive isolate sequences obtained from a R10 library
XX
XX Sequence 10 BP; 0 A; 2 C; 5 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 62.0%; Score 6.2; DB 2; Length 10;
XX Best Local Similarity 50.0%; Pred. No. 6.7e+05;
XX Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
XX
XX 1 UCCDGGHMD 10
XX |||:::
XX 1 UCCGGGUGUC 10
XX
XX RESULT 12
XX AA277884/C
XX ID AA277884 standard; DNA; 10 BP.
XX
XX AA277884;
XX
XX 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:312.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
XX APC; monocyte-derived dendritic cell; differential gene expression;
XX immunostimulatory cofactor; costimulatory factor; CTU;
XX cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
XX
XX MO9965924-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99MO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
XX 19-JUN-1998; 98US-0089844P.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089878P.
XX 19-JUN-1998; 98US-0089911P.
XX 19-JUN-1998; 98US-0089922P.
XX 19-JUN-1998; 98US-0089933P.
XX 19-JUN-1998; 98US-0089944P.

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PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090003P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 73; 130dp; English.
XX
XX Sequences AA27573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or
XX differentially expressed in monocyte-derived dendritic cells compared
XX with monocytes. Some of the transcripts correspond to known genes or ESTs
XX (expressed sequence tags) which were previously unknown to be
XX preferentially or differentially expressed in dendritic cells, while
XX other transcripts correspond to novel genes. Antigen-presenting cell
XX (APC)-associated costimulatory factors play an important role in the
XX activation of the cytotoxic immune response, particularly against tumour
XX cells. Tumour antigen presentation via the MHC (major histocompatibility
XX complex) and subsequent recognition by T-cell receptors is alone
XX insufficient to activate a robust cytotoxic immune response that can lyse
XX the tumour cells. Immunostimulatory cofactors also being required for
XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
XX sequences identified using the SAGE tags have several potential uses.
XX They may be used in vaccines to induce an immune response, particularly
XX against a tumour antigen; to modulate the genotype of an APC; to screen
XX for agents that modulate expression of differentially expressed genes in
XX an APC; and as hybridisation probes/amplification primers for the
XX diagnosis, prognosis and monitoring of diseases related to abnormal
XX expression of these genes. Detection of the dendritic cell differentially
XX expressed genes, or of their encoded proteins, can be used to identify
XX cells as belonging to the monocyte lineage. Cells containing these genes
XX can be used in active immunotherapy (or to stimulate production of a
XX population of antigen-specific effector cells) and vectors containing
XX them are used in gene therapy. Co-administration of tumour antigens and
XX APC-associated costimulatory factors ensures adequate antigen
XX presentation to endogenous APCs and upregulates the APCs for the
XX secretion of co-stimulatory signals, migration to T cell-rich sites,
XX recruitment of T cell growth factors and secretion of chemokines for
XX recruitment of immune effector cells
XX
XX Sequence 10 BP; 1 A; 3 C; 1 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 62.0%; Score 6.2; DB 3; Length 10;
XX Best Local Similarity 40.0%; Pred. No. 6.7e+05;
XX Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

```

```

OY      1 UGCDGSHNMD 10
        ||:|:::|:
Db      10 TGCAGGAAAA 1

RESULT 13
ID      AA277631/C
        AA277631 standard; DNA; 10 BP.
AC      AA277631;
XX      10-APR-2000 (first entry)
DE      Human dendritic cell SAGE tag, SEQ ID NO:59.
KW      SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW      APC; monocyte-derived dendritic cell; differential gene expression;
KW      immunostimulatory cofactor; costimulatory factor; CTL;
KW      cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX      Homo sapiens.
XX      WO9965924-A2.
XX      23-DEC-1999.
XX      18-JUN-1999; 99WO-US013800.
XX      19-JUN-1998; 98US-0089833P.
XX      19-JUN-1998; 98US-0089844P.
XX      19-JUN-1998; 98US-0089853P.
XX      19-JUN-1998; 98US-0089876P.
XX      19-JUN-1998; 98US-0089931P.
XX      19-JUN-1998; 98US-0089922P.
XX      19-JUN-1998; 98US-0089932P.
XX      19-JUN-1998; 98US-0089934P.
XX      19-JUN-1998; 98US-0089979P.
XX      19-JUN-1998; 98US-0089999P.
XX      19-JUN-1998; 98US-0090000P.
XX      19-JUN-1998; 98US-0090035P.
XX      19-JUN-1998; 98US-0090036P.
XX      19-JUN-1998; 98US-0090039P.
XX      19-JUN-1998; 98US-0090040P.
XX      19-JUN-1998; 98US-0090041P.
XX      19-JUN-1998; 98US-0090042P.
XX      19-JUN-1998; 98US-0090043P.
XX      19-JUN-1998; 98US-0090044P.
XX      19-JUN-1998; 98US-0090045P.
XX      19-JUN-1998; 98US-0090047P.
XX      19-JUN-1998; 98US-0090048P.
XX      19-JUN-1998; 98US-0090072P.
XX      19-JUN-1998; 98US-0090076P.
XX      19-JUN-1998; 98US-0090077P.
XX      19-JUN-1998; 98US-0090078P.
XX      19-JUN-1998; 98US-0090079P.
XX      19-JUN-1998; 98US-0090080P.
XX      08-DEC-1998; 98US-0111715P.
XX      (GENZ ) GENZYME CORP.
XX      (ROBE) ROBERTS B L.
XX      (SHAN/) SHANKARA S.
XX      Roberte BL, Shankara S;
XX      WPI; 2000-106077/09.
XX      Isolated polynucleotides differentially expressed in antigen-presenting
XX      cells, useful in gene vaccines against cancer.
XX      Claim 1; Page 65; 130pp; English.
XX      Sequences AA277573-279709 represent SAGE (serial analysis of gene

```

CC	expression) tags used to identify mRNA transcripts encoding
CC	immunostimulatory cofactor proteins which are preferentially or
CC	differentially expressed in monocyte-derived dendritic cells compared
CC	with monocytes. Some of the transcripts correspond to known genes or ESTs
CC	(expressed sequence tags) which were previously unknown to be
CC	preferentially or differentially expressed in dendritic cells, while
CC	other transcripts correspond to novel genes. Antigen-presenting cell
CC	(APC)-associated costimulatory factors play an important role in the
CC	activation of the cytotoxic immune response, particularly against tumour
CC	cells. Tumour antigen presentation via the MHC (major histocompatibility
CC	complex) and subsequent recognition by T-cell receptors is alone
CC	insufficient to activate a robust cytotoxic immune response that can lyse
CC	the tumour cells; immunostimulatory cofactors also being required for
CC	efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC	sequences identified using the SAGE tags have several potential uses.
CC	They may be used in vaccines to induce an immune response, particularly
CC	against a tumour antigen; to modulate the genotype of an APC; to screen
CC	for agents that modulate expression of differentially expressed genes in
CC	an APC; and as hybridisation probes/amplification primers for the
CC	diagnosis, prognosis and monitoring of diseases related to abnormal
CC	expression of these genes. Detection of the dendritic cell differentially
CC	expressed genes, or of their encoded proteins, can be used to identify
CC	cells as belonging to the monocyte lineage. Cells containing these genes
CC	can be used in active immunotherapy (or to stimulate production of a
CC	population of antigen-specific effector cells) and vectors containing
CC	them are used in gene therapy. Co-administration of tumour antigens and
CC	APC-associated costimulatory factors ensures adequate antigen
CC	presentation to endogenous APCs and upregulates the APCs for the
CC	presentation of co-stimulatory signals, migration to T cell-rich sites,
CC	secretion of T cell growth factors and secretion of chemokines for
CC	recruitment of immune effector cells
CC	
SQ	Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 U; 0 Other;
XX	
QY	1 UGCDGHNMD 10
DB	10 TGCTGGCTAG 1
	Query Match 62.0%; Score 6.2; DB 3; Length 10;
	Best Local Similarity 40.0%; Pred. No. 6.7e+05;
	Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0.
RESULT 14	
AAZ81050	
ID	AAZ81050 standard; DNA; 10 BP.
XX	
AC	AAZ81050;
XX	
DT	07-APR-2000 (first entry)
XX	
DE	Metastatic breast tumour cell upregulated transcript tag #284.
XX	
KW	Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW	non-metastatic breast tumour tissue; gene therapy; anticancer;
XX	antimetastatic; vaccine; diagnosis; ss.
OS	
XX	Homo sapiens.
XX	
PN	MO9965928-A2.
XX	
PD	23-DEC-1999.
XX	
PF	18-JUN-1999; 99WO-US013647.
XX	
PR	19-JUN-1998; 98US-0089853P.
PR	19-JUN-1998; 98US-008997P.
PR	19-JUN-1998; 98US-0090039P.
PR	19-JUN-1998; 98US-0090040P.
PR	19-JUN-1998; 98US-0090041P.
XX	
PA	(GENZ ) GENZYME CORP.
PA	(ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 XX WPI: 2000-106079/09.  
 DR  
 XX  
 PT Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 PS Claim 1, Page 65, 219pp; English.

XX  
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942  
 CC to AA286677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 2 A; 2 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 62.0%; Score 6.2; DB 3; Length 10;  
 Best Local Similarity 40.0%; Pred. No. 6.7e+05;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGGMND 10  
 Db 1 TGCAAGTACT 10

## RESULT 15

AA285761  
 ID AA285761 standard; DNA: 10 BP.

AC AA285761;

DT 07-APR-2000 (first entry)

DE Metastatic breast tumour cell downregulated transcript tag #4995.

XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX

OS Homo sapiens.

PN MO9965928-A2.

PD 23-DEC-1999.

PF 18-JUN-1999; 99WO-US013647.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-008997P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

PA (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 XX WPI: 2000-106079/09.  
 DR  
 XX  
 PT Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 PS Claim 1, Page 192, 219pp; English.

XX  
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942  
 CC to AA286677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 62.0%; Score 6.2; DB 3; Length 10;  
 Best Local Similarity 40.0%; Pred. No. 6.7e+05;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGGMND 10  
 Db 1 TGCTGGAGAA 10

Search completed: October 19, 2004, 15:04:54  
 Job time : 293 secs



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OM nucleic - nucleic search, using sw model

Run on: October 19, 2004, 14:46:35 ; Search time 57 Seconds  
(without alignments)  
124.700 Million cell updates/sec

Title: US-09-762-648-4  
Perfect score: 10  
Sequence: 1 UGCDGHNMD 10

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6.2	62.0	10	US-08-388-353-70	Sequence 70, Appl
2	6.2	62.0	10	US-08-388-353-504	Sequence 504, App
3	6.2	62.0	10	US-08-488-551B-70	Sequence 70, Appl
4	6.2	62.0	10	US-08-488-551B-504	Sequence 504, App
5	6.2	62.0	10	US-08-488-551B-822	Sequence 822, App
6	6.2	62.0	10	US-08-522-384-102	Sequence 102, App
7	6.2	62.0	10	US-09-261-115-71	Sequence 71, Appl
8	6.2	62.0	10	US-09-508-753B-22	Sequence 22, Appl
9	6.2	62.0	11	US-08-481-658B-75	Sequence 75, Appl
10	6.2	62.0	11	US-08-477-504A-75	Sequence 75, Appl
11	6.2	62.0	11	US-08-486-756A-75	Sequence 75, Appl
12	6.2	62.0	11	US-08-485-862B-75	Sequence 75, Appl
13	6.2	62.0	11	US-08-787-739-75	Sequence 75, Appl
14	6.2	62.0	11	US-08-487-077A-75	Sequence 75, Appl
15	6.2	62.0	11	US-08-485-863A-75	Sequence 75, Appl
16	6.2	62.0	11	US-08-485-049D-75	Sequence 75, Appl
17	6.2	62.0	11	US-08-482-918-99	Sequence 99, Appl
18	6.2	62.0	11	US-09-224-681-99	Sequence 99, Appl
19	6.2	62.0	11	US-08-336-728A-99	Sequence 99, Appl
20	6.2	62.0	11	US-09-178-115-75	Sequence 75, Appl
21	6.2	62.0	11	US-09-177-776-75	Sequence 75, Appl
22	6.2	62.0	11	US-09-249-155A-303	Sequence 303, App
23	6.2	62.0	11	US-09-635-251-99	Sequence 99, Appl
24	6.2	62.0	11	US-09-772-719B-75	Sequence 75, Appl
25	6.2	62.0	12	US-08-035-928-18	Sequence 18, Appl
26	6.2	62.0	12	US-08-441-887A-177	Sequence 177, App
27	6.2	62.0	12	US-08-993-118-6	Sequence 6, Appl

28	6.2	62.0	12	US-08-845-528C-6	Sequence 6, Appl
29	6.2	62.0	12	US-09-620-926-1	Sequence 1, Appl
30	6.2	62.0	12	US-09-528-404-7	Sequence 7, Appl
31	6.2	62.0	12	US-09-066-281B-6	Sequence 6, Appl
32	6.2	62.0	12	US-09-574-117A-9	Sequence 9, Appl
33	6.2	62.0	12	US-09-468-433C-6	Sequence 6, Appl
34	6.2	62.0	13	5196516-5	Patent No. 5196516
35	6.2	62.0	14	US-08-333-747-9	Sequence 9, Appl
36	6.2	62.0	14	US-08-332-747-17	Sequence 17, Appl
37	6.2	62.0	14	US-08-998-099-339	Sequence 339, App
38	6.2	62.0	14	US-08-998-099-368	Sequence 368, App
39	6.2	62.0	14	US-09-475-947A-278	Sequence 278, App
40	6.2	62.0	15	US-08-319-492B-413	Sequence 413, App
41	6.2	62.0	15	US-08-363-240A-36	Sequence 36, Appl
42	6.2	62.0	15	US-08-363-240A-69	Sequence 69, Appl
43	6.2	62.0	15	US-08-363-240A-543	Sequence 543, App
44	6.2	62.0	15	US-08-363-240A-592	Sequence 592, App
45	6.2	62.0	15	US-08-363-240A-751	Sequence 751, App

## ALIGNMENTS

RESULT 1  
US-08-388-353-70/c  
Sequence 70, Application US/08388353  
Patent No. 6010895  
GENERAL INFORMATION:  
APPLICANT: Deacon, Nicholas J.  
APPLICANT: Learmont, Jennifer C.  
APPLICANT: McPhee, Dale A.  
APPLICANT: Crowe, Suzanne  
APPLICANT: Cooper, David  
TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1  
NUMBER OF SEQUENCES: 800  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Scully, Scott, Murphy & Presser  
STREET: 400 Garden City Plaza  
CITY: Garden City  
STATE: New York  
COUNTRY: United States  
ZIP: 11530  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/388,353  
FILING DATE: 14-FEB-1995  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Digiglio, Frank S.  
REGISTRATION NUMBER: 31,346  
REFERENCE/DOCKET NUMBER: 9606  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (516) 742-4343  
TELEFAX: (516) 742-4366  
TELEX: 230 901 SAMS UR  
INFORMATION FOR SEQ ID NO: 70:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-388-353-70

Query Match 62.0%; Score 6.2; DB 3; Length 10;  
Best Local Similarity 40.0%; Pred. No. 8.9e+04;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGHNMD 10

Db 10 TGCTGCTCA 1

```
RESULT 2
US-08-388-353-504/c
; Sequence 504, Application US/08388353
; Patent No. 6010895
; GENERAL INFORMATION:
; APPLICANT: Deacon, Nicholas J.
; APPLICANT: Learmont, Jennifer C.
; APPLICANT: McPhee, Dale A.
; APPLICANT: Crowe, Suzanne
; APPLICANT: Cooper, David
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 800
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy & Presser
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/388,353
; FILING DATE: 14-FEB-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9606
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 504:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-388-353-504

Query Match 62.0%; Score 6.2; DB 3; Length 10;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGGHMD 10
Db 10 TGCTGCTCA 1

RESULT 3
US-08-488-551B-70/c
; Sequence 70, Application US/08488551B
; Patent No. 6015661
; GENERAL INFORMATION:
; APPLICANT: Nicholas J. Deacon
; APPLICANT: Dale A. McPhee
; APPLICANT: David Cooper
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 841
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scully, Scott, Murphy & Presser
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
```

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COUNTRY: U.S.A.
ZIP: 11530-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,551B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PM3864 (AU)
; FILING DATE: 14-FEB-1994
; APPLICATION NUMBER: PM4002 (AU)
; FILING DATE: 21-FEB-1994
; APPLICATION NUMBER: PM0284 (AU)
; FILING DATE: 23-DEC-1994
; APPLICATION NUMBER: US 08/388,353
; FILING DATE: 14-FEB-1995
; APPLICATION NUMBER: PM3021/95
; FILING DATE: 17-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: FRANK S. DIGIGLIO
; REFERENCE/DOCKET NUMBER: 96062
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-488-551B-70
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Query Match 62.0%; Score 6.2; DB 3; Length 10;  
Best Local Similarity 40.0%; Pred. No. 8.9e+04;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGGHMD 10  
Db 10 TGCTGCTCA 1

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RESULT 4
US-08-488-551B-504/c
; Sequence 504, Application US/08488551B
; Patent No. 6015661
; GENERAL INFORMATION:
; APPLICANT: Nicholas J. Deacon
; APPLICANT: Dale A. McPhee
; APPLICANT: David Cooper
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 841
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 11530-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,551B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PM3864 (AU)
; FILING DATE: 14-FEB-1994
```

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; APPLICATION NUMBER: PM4002 (AU)
; FILING DATE: 21-FEB-1994
; APPLICATION NUMBER: PN0284 (AU)
; FILING DATE: 23-DEC-1994
; APPLICATION NUMBER: US 08/388,353
; FILING DATE: 14-FEB-1995
; APPLICATION NUMBER: PN3021/95
; FILING DATE: 17-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: FRANK S. DIGIGLIO
; REFERENCE/DOCKET NUMBER: 96062
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 504:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-488-551B-504

Query Match      62.0%; Score 6.2; DB 3; Length 10;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy      1 UGCDGSHNMD 10
       :|||:
Db      10 TGCAGGCTCA 1

RESULT 5
US-08-488-551B-822/c
; Sequence 822, Application US/08488551B
; Patent No. 6015661
; GENERAL INFORMATION:
; APPLICANT: Nicholas J. Deacon
; APPLICANT: Dale A. McPhee
; TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
; NUMBER OF SEQUENCES: 841
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 11530-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,551B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PM3864 (AU)
; FILING DATE: 14-FEB-1994
; APPLICATION NUMBER: PM4002 (AU)
; FILING DATE: 21-FEB-1994
; APPLICATION NUMBER: PN0284 (AU)
; FILING DATE: 23-DEC-1994
; APPLICATION NUMBER: US 08/388,353
; FILING DATE: 14-FEB-1995
; APPLICATION NUMBER: PN3021/95
; FILING DATE: 17-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: FRANK S. DIGIGLIO
; REFERENCE/DOCKET NUMBER: 96062
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343

```

```

; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 822:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-488-551B-822

Query Match      62.0%; Score 6.2; DB 3; Length 10;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy      1 UGCDGSHNMD 10
       :|||:
Db      10 TGCAGGCTCA 1

RESULT 6
US-08-522-384-102
; Sequence 102, Application US/08522384
; Patent No. 6110667
; GENERAL INFORMATION:
; APPLICANT: LOPEZ-NIETO, CARLOS E
; APPLICANT: NIGAM, SANJAY KUMAR
; TITLE OF INVENTION: PROCESSES, APPARATUS AND COMPOSITIONS FOR
; FILE REFERENCE: 2458-4029
; CURRENT APPLICATION NUMBER: US/08/522,384
; CURRENT FILING DATE: 1996-11-15
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 102
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Primer
; US-08-522-384-102

Query Match      62.0%; Score 6.2; DB 3; Length 10;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy      1 UGCDGSHNMD 10
       :|||:
Db      1 TGCCTGCTCAT 10

RESULT 7
US-09-261-115-71
; Sequence 71, Application US/09261115
; Patent No. 6458584
; GENERAL INFORMATION:
; APPLICANT: MIRZABEKOV, ANDREI
; APPLICANT: GUSCHIN, DMITRY Y.
; APPLICANT: SHIK, VALENTINE
; APPLICANT: DROBYSHEV, ALEKSEI
; APPLICANT: FOTIN, ALEXANDER
; APPLICANT: YERSHOV, GENNADIY
; APPLICANT: LYSOV, YU
; TITLE OF INVENTION: CUSTOMIZED OLIGONUCLEOTIDE MICROCHIPS THAT CONVERT
; TITLE OF INVENTION: MULTIPLE GENETIC INFORMATION TO SIMPLE PATTERNS, ARE
; FILE REFERENCE: 21416/90184
; CURRENT APPLICATION NUMBER: US/09/261,115
; CURRENT FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 71
; LENGTH: 10
; TYPE: DNA

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Customized
; OTHER INFORMATION: oligonucleotide
US-09-261-115-71

Query Match          62.0%; Score 6.2; DB 4; Length 10;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      1 UGCDGGHND 10
       :|:|:|:|:
Db      1 TGGCGGTCAA 10

RESULT 8
US-09-508-753B-22
; Sequence 22, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhito FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Eiji OHARA
; APPLICANT: Masamori WATAHAKI
; TITLE OF INVENTION: Method for synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 22
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-22

Query Match          62.0%; Score 6.2; DB 4; Length 10;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      1 UGCDGGHND 10
       :|:|:|:|:
Db      1 TGGTGGAAAG 10

RESULT 9
US-08-481-658B-75
; Sequence 75, Application US/08481658B
; Patent No. 5955075
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorek, Jaromir
; APPLICANT: Pastorek, Silvia
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/08/481,658B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.3E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-435-2034
; TELEFAX: 415-435-0727
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; DESCRIPTION: 5' donor consensus splice sequence
US-08-481-658B-75

Query Match          62.0%; Score 6.2; DB 2; Length 11;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      1 UGCDGGHND 10
       :|:|:|:|:
Db      1 TGGTGGTGAG 10

RESULT 10
US-08-477-504A-75
; Sequence 75, Application US/08477504A
; Patent No. 5972353
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorek, Jaromir
; APPLICANT: Pastorek, Silvia
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,504A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.3D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-435-2034
; TELEFAX: 415-435-0727
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
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TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
DESCRIPTION: 5' donor consensus splice sequence  
US-08-477-504A-75

Query Match 62.0%; Score 6.2; DB 2; Length 11;  
Best Local Similarity 40.0%; Pred. No. 8.9e+04;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGSHNMD 10  
:|:|:|:|:  
Db 1 TGCTGTGTAG 10

RESULT 11  
US-08-486-756A-75  
Sequence 75, Application US/08486756A  
Patent No. 5981711  
GENERAL INFORMATION:  
APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir  
TITLE OF INVENTION: MN Gene and Protein  
NUMBER OF SEQUENCES: 86  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 6 Mariposa Court  
CITY: Tiburon  
STATE: California  
COUNTRY: USA  
ZIP: 94920  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/486,756A  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/260,190  
FILING DATE: 15-JUN-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 30,863  
REFERENCE/DOCKET NUMBER: D-0021.3C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-435-2034  
TELEFAX: 415-435-0727  
INFORMATION FOR SEQ ID NO: 75:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
DESCRIPTION: 5' donor consensus splice sequence  
US-08-486-756A-75

Query Match 62.0%; Score 6.2; DB 2; Length 11;  
Best Local Similarity 40.0%; Pred. No. 8.9e+04;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGSHNMD 10  
:|:|:|:|:  
Db 1 TGCTGTGTAG 10

RESULT 12  
US-08-485-862B-75  
Sequence 75, Application US/08485862B  
Patent No. 5989838

GENERAL INFORMATION:  
APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir  
TITLE OF INVENTION: MN Gene and Protein  
NUMBER OF SEQUENCES: 86  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 6 Mariposa Court  
CITY: Tiburon  
STATE: California  
COUNTRY: USA  
ZIP: 94920  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/485,862B  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/477,504  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: US 08/260,190  
FILING DATE: 15-JUN-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 30,863  
REFERENCE/DOCKET NUMBER: D-0021.3D  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-435-2034  
TELEFAX: 415-435-0727  
INFORMATION FOR SEQ ID NO: 75:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
DESCRIPTION: 5' donor consensus splice sequence  
US-08-485-862B-75

Query Match 62.0%; Score 6.2; DB 2; Length 11;  
Best Local Similarity 40.0%; Pred. No. 8.9e+04;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGSHNMD 10  
:|:|:|:|:  
Db 1 TGCTGTGTAG 10

RESULT 13  
US-08-787-739-75  
Sequence 75, Application US/08787739  
Patent No. 6027887  
GENERAL INFORMATION:  
APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir  
TITLE OF INVENTION: MN Gene and Protein  
NUMBER OF SEQUENCES: 96  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 369 Pine Street, Suite 610  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,739
FILING DATE: 24-JUN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,756
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/481,658
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,862
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,863
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/487,077
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-767-739-75

Query Match      62.0%; Score 6.2; DB 3; Length 11;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Cy      1 UGCDGHNMD 10
Db      1 TGCTGTGAG 10

RESULT 14
US-08-487-077A-75
Sequence 75, Application US/08487077A
Patent No. 6069242
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,077A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3H
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-0727
TELEFAX: 415-435-2034
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-487-077A-75

Query Match      62.0%; Score 6.2; DB 3; Length 11;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Cy      1 UGCDGHNMD 10
Db      1 TGCTGTGAG 10

RESULT 15
US-08-485-863A-75
Sequence 75, Application US/08485863A
Patent No. 6093548
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,863A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3G
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-0727
TELEFAX: 415-435-2034
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
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;      TYPE: nucleic acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;      MOLECULE TYPE: DNA (genomic)
;      DESCRIPTION: 5' donor consensus splice sequence
US-08-485-863A-75

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```

Query Match      62.0%; Score 6.2; DB 3; Length 11;
Best Local Similarity 40.0%; Pred. No. 8.9e+04;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

```

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Qy      1 UGCDGSHNMD 10
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Db      1 TGCTGTGTAG 10

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Search completed: October 19, 2004, 16:08:36  
Job time : 58 secs

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OM nucleic - nucleic search, using sw model

Run on: October 19, 2004, 15:00:01 : Search time 260 Seconds  
(without alignments)  
196.753 Million cell updates/sec

Title: US-09-762-648-4  
Perfect score: 10  
Sequence: 1 UGCDGSHMD 10

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 3403857 seqs, 255783690 residues  
Total number of hits satisfying chosen parameters: 6807714

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications NA:\*

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2:	/cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
3:	/cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
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13:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
14:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
15:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
16:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
17:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
18:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
19:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*
20:	/cgn2_6/ptodata/1/pubpna/US10_PUBSCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6.2	62.0	10	US-10-033-145-59	Sequence 59, App1
2	6.2	62.0	10	US-10-033-145-312	Sequence 312, App1
3	6.2	62.0	10	US-10-084-700-17	Sequence 17, App1
4	6.2	62.0	10	US-10-212-476-71	Sequence 71, App1
5	6.2	62.0	11	US-09-005-243-99	Sequence 99, App1
6	6.2	62.0	11	US-09-224-683-99	Sequence 99, App1
7	6.2	62.0	11	US-09-772-719-75	Sequence 75, App1
8	6.2	62.0	11	US-09-918-715-162	Sequence 162, App1
9	6.2	62.0	11	US-09-967-237-75	Sequence 75, App1
10	6.2	62.0	11	US-10-314-322-303	Sequence 303, App1
11	6.2	62.0	11	US-10-203-969A-5	Sequence 357, App1
12	6.2	62.0	11	US-10-450-797-357	Sequence 421, App1
13	6.2	62.0	11	US-10-450-797-421	Sequence 421, App1

C 14	6.2	62.0	11	US-10-450-797-663	Sequence 663, App1
C 15	6.2	62.0	11	US-10-175-608-99	Sequence 99, App1
C 16	6.2	62.0	12	US-10-085-108-6	Sequence 6, App1
C 17	6.2	62.0	12	US-10-076-047A-110	Sequence 110, App1
C 18	6.2	62.0	12	US-10-160-237-6	Sequence 6, App1
C 19	6.2	62.0	13	US-09-823-181-4	Sequence 4, App1
C 20	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 21	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 22	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 23	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 24	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 25	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 26	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 27	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 28	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 29	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 30	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 31	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 32	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 33	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 34	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 35	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 36	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 37	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 38	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 39	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 40	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 41	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 42	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 43	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 44	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1
C 45	6.2	62.0	14	US-08-980-068B-12	Sequence 12, App1

# ALIGNMENTS

RESULT 1  
US-10-033-145-59/c  
Sequence 59, Application US/10033145  
Publication No. US20020151515A1  
GENERAL INFORMATION:  
APPLICANT: GENZYME CORPORATION  
APPLICANT: ROBERTS, BRUCE  
APPLICANT: SHANKARA, SRINIVAS  
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES  
FILE REFERENCE: GA0201C  
CURRENT APPLICATION NUMBER: US/10/033.145  
CURRENT FILING DATE: 2001-11-05  
PRIOR APPLICATION NUMBER: PCT/US99/13800  
PRIOR FILING DATE: 1999-06-18  
NUMBER OF SEQ ID NOS: 2137  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 59  
LENGTH: 10  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-033-145-59

Query Match  
Best Local Similarity 62.0% Score 6.2; DB 13; Length 10;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGSHMD 10  
Db 10 TGCTGGCTAG 1

RESULT 2  
US-10-033-145-312/c  
Sequence 312, Application US/10033145  
Publication No. US20020151515A1  
GENERAL INFORMATION:

APPLICANT: GENZYME CORPORATION  
APPLICANT: ROBERTS, BRUCE  
APPLICANT: SHANKARA, SRINIVAS  
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES  
FILE REFERENCE: GAO201C  
CURRENT APPLICATION NUMBER: US/10/033,145  
CURRENT FILING DATE: 2001-11-05  
PRIOR APPLICATION NUMBER: PCT/US99/13800  
PRIOR FILING DATE: 1999-06-18  
NUMBER OF SEQ ID NOS: 2137  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 312  
LENGTH: 10  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-033-145-312

Query Match 62.0%; Score 6.2; DB 13; Length 10;  
Best Local Similarity 40.0%; Pred. No. 7.8e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDCGHMND 10  
Db 10 TGCAGGTCCA 1

RESULT 3  
US-10-084-700-17  
Sequence 17, Application US/10084700  
Publication No. US20020160403A1  
GENERAL INFORMATION:  
APPLICANT: Sealey, Todd  
TITLE OF INVENTION: HUBB3 GENE INVOLVED IN HUMAN CANCERS  
FILE REFERENCE: PP-01406,004/200130,438D1  
CURRENT APPLICATION NUMBER: US/10/084,700  
CURRENT FILING DATE: 2002-02-27  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 17  
LENGTH: 10  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-084-700-17

Query Match 62.0%; Score 6.2; DB 13; Length 10;  
Best Local Similarity 40.0%; Pred. No. 7.8e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDCGHMND 10  
Db 1 TGCAGGTCCA 10

RESULT 4  
US-10-212-476-71  
Sequence 71, Application US/10212476  
Publication No. US20030157509A1  
GENERAL INFORMATION:  
APPLICANT: MIRZABEKOV, ANDREI  
APPLICANT: GUSCHIN, DMITRY Y.  
APPLICANT: SHIK, VALENTINE  
APPLICANT: DROBYSHYEV, ALEKSEI  
APPLICANT: FOTIN, ALEXANDER  
APPLICANT: YERSHOV, GENNADIY  
APPLICANT: LYSOV, YU  
TITLE OF INVENTION: CUSTOMIZED OLIGONUCLEOTIDE MICROCHIPS THAT CONVERT  
TITLE OF INVENTION: MULTIPLE GENETIC INFORMATION TO SIMPLE PATTERNS, ARE  
FILE REFERENCE: 21416/90184  
CURRENT APPLICATION NUMBER: US/10/212,476  
CURRENT FILING DATE: 2002-08-08  
PRIOR APPLICATION NUMBER: US/09/261,115  
PRIOR FILING DATE: 1999-03-03

NUMBER OF SEQ ID NOS: 78  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 71  
LENGTH: 10  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Customized  
US-10-212-476-71

Query Match 62.0%; Score 6.2; DB 15; Length 10;  
Best Local Similarity 40.0%; Pred. No. 7.8e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDCGHMND 10  
Db 1 TGCAGGTCCA 10

RESULT 5  
US-09-005-243-99/c  
Sequence 99, Application US/09005243  
Patent No. US20020018763A1  
GENERAL INFORMATION:  
APPLICANT: Zeebo, Krzyszina M.  
APPLICANT: Boeselman, Robert A.  
APPLICANT: Suggs, Sidney V.  
APPLICANT: Martin, Francis H.  
TITLE OF INVENTION: Stem Cell Factor  
NUMBER OF SEQUENCES: 104  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Garstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60605-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/005,243  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/449,653  
FILING DATE: 24-MAY-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/982,255  
FILING DATE: 25-NOV-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/589,701  
FILING DATE: 01-OCT-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/573,616  
FILING DATE: 24-AUG-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/537,198  
FILING DATE: 11-JUN-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/422,383  
FILING DATE: 16-OCT-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Clough, David W.  
REGISTRATION NUMBER: 36,107  
REFERENCE/DOCKET NUMBER: 01017/34465  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312/474-6300  
TELEFAX: 312/474-0448

TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 99:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-09-005-243-99

Query Match 62.0%; Score 6.2; DB 9; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

OY 1 UGCDGHNMD 10  
Db 11 TGCAGAGAT 2

RESULT 6  
US-09-224-683-99/C  
Sequence 99, Application US/09224683  
Patent No. US20020031491A1  
GENERAL INFORMATION:  
APPLICANT: Zeebo, Kristina M.  
APPLICANT: Boselman, Robert A.  
APPLICANT: Suggs, Sidney V.  
APPLICANT: Martin, Francis H.  
TITLE OF INVENTION: Stem Cell Factor: Composition Claims  
NUMBER OF SEQUENCES: 104  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/224,683  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/005,893  
FILING DATE: 12-JAN-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/449,653  
FILING DATE: 24-MAY-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/982,255  
FILING DATE: 25-NOV-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/589,701  
FILING DATE: 01-OCT-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/573,616  
FILING DATE: 24-AUG-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/537,198  
FILING DATE: 11-JUN-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/422,383  
FILING DATE: 16-OCT-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Clough, David W.  
REGISTRATION NUMBER: 36,107  
REFERENCE/DOCKET NUMBER: 01017/35136

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312/474-6300  
TELEFAX: 312/474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 99:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-09-224-683-99

Query Match 62.0%; Score 6.2; DB 9; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

OY 1 UGCDGHNMD 10  
Db 11 TGCAGAGAT 2

RESULT 7  
US-09-772-719-75  
Sequence 75, Application US/09772719  
Patent No. US20020137910A1  
GENERAL INFORMATION:  
APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir  
TITLE OF INVENTION: MN Gene and Protein  
NUMBER OF SEQUENCES: 86  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 369 Pine Street  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/772,719  
FILING DATE: 30-JAN-2001  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/485,049  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: US 08/260,190  
FILING DATE: 15-JUN-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 30,863  
REFERENCE/DOCKET NUMBER: D-0021.3E  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-981-2034  
TELEFAX: 415-981-0332  
INFORMATION FOR SEQ ID NO: 75:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
DESCRIPTION: 5' donor consensus splice sequence  
US-09-772-719-75  
Query Match 62.0%; Score 6.2; DB 9; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGHNMD 10  
:||||: :  
Db 1 TGCTGTGAG 10

RESULT 8  
US-09-918-715-162/c  
; Sequence 162, Application US/09918715  
; Publication No. US20030017157A1  
; GENERAL INFORMATION:  
; APPLICANT: Brad St. Croix  
; APPLICANT: Bert Vogelstein  
; APPLICANT: Kenneth Kinzler  
; TITLE OF INVENTION: ENDOTHELIAL CELL EXPRESSION PATTERNS  
; FILE REFERENCE: 1107.00134  
; CURRENT APPLICATION NUMBER: US/09/918,715  
; PRIOR FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: 60/222,599  
; PRIOR FILING DATE: 2000-08-02  
; PRIOR APPLICATION NUMBER: 60/224,360  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: 60/282,850  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 358  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 162  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-918-715-162

Query Match 62.0%; Score 6.2; DB 10; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGHNMD 10  
:||||: :  
Db 10 TGCGAGTTAT 1

RESULT 9  
US-09-967-237-75  
; Sequence 75, Application US/09967237  
; Publication No. US20030049828A1  
; GENERAL INFORMATION:  
; APPLICANT: Zavada, Jan  
; APPLICANT: Pastorekova, Silvia  
; APPLICANT: Pastorek, Jaromir  
; TITLE OF INVENTION: MN Gene and Protein  
; FILE REFERENCE: D-0021.SB-2  
; CURRENT APPLICATION NUMBER: US/09/967,237  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 09/178,115  
; PRIOR FILING DATE: 1998-10-23  
; NUMBER OF SEQ ID NOS: 116  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 75  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: HUMAN  
US-09-967-237-75

Query Match 62.0%; Score 6.2; DB 10; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGHNMD 10  
:||||: :  
Db 1 TGCTGTGAG 10

RESULT 10

US-10-314-322-303/c  
; Sequence 303, Application US/10314322  
; Publication No. US2003022911A1  
; GENERAL INFORMATION:  
; APPLICANT: Heber-Katz, Ellen  
; TITLE OF INVENTION: Compositions and Methods for Wound  
; FILE REFERENCE: 000486.00016  
; CURRENT APPLICATION NUMBER: US/10/314,322  
; PRIOR FILING DATE: 2002-12-09  
; PRIOR APPLICATION NUMBER: US 60/074,737  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/097,937  
; PRIOR FILING DATE: 1998-08-26  
; PRIOR APPLICATION NUMBER: US 60/102,051  
; PRIOR FILING DATE: 1998-09-28  
; PRIOR APPLICATION NUMBER: US 09/249,155  
; PRIOR FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 346  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 303  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-314-322-303

Query Match 62.0%; Score 6.2; DB 15; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGHNMD 10  
:||||: :  
Db 11 TGCTGTGAG 2

RESULT 11  
US-10-203-969A-5/c  
; Sequence 5, Application US/10203969A  
; Publication No. US20040110224A1  
; GENERAL INFORMATION:  
; APPLICANT: Puljk, Mouter C.  
; APPLICANT: Slocostre, Jelle W.  
; TITLE OF INVENTION: Segment synthesis  
; FILE REFERENCE: P50200US00  
; CURRENT APPLICATION NUMBER: US/10/203,969A  
; PRIOR FILING DATE: 2003-07-07  
; PRIOR APPLICATION NUMBER: EP 00200536.1  
; PRIOR FILING DATE: 2000-02-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00131  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 660  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: unspecified  
; OTHER INFORMATION: biotinylated DNA  
; NAME/KEY: misc feature  
; LOCATION: (1)-(11)  
US-10-203-969A-5

Query Match 62.0%; Score 6.2; DB 17; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGHNMD 10  
:||||: :  
Db 10 TGCGGGTGG 1

```
RESULT 12
US-10-450-797-357
; Sequence 357, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dirk
; APPLICANT: Petersohn, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 357
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-357

Query Match      62.0%; Score 6.2; DB 17; Length 11;
Best Local Similarity 40.0%; Pred. No. 7.7e+05;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      1 UGCDGHNMD 10
      :||:|:|:|:
Db      2 TGCTGGAGAA 11

RESULT 13
US-10-450-797-421/c
; Sequence 421, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dirk
; APPLICANT: Conradt, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 421
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-421

Query Match      62.0%; Score 6.2; DB 17; Length 11;
Best Local Similarity 40.0%; Pred. No. 7.7e+05;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      1 UGCDGHNMD 10
      :||:|:|:|:
Db      10 TGCGGTCAT 1

RESULT 14
US-10-450-797-663/c
; Sequence 663, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dirk
```

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; APPLICANT: Conradt, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 663
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-663

Query Match      62.0%; Score 6.2; DB 17; Length 11;
Best Local Similarity 40.0%; Pred. No. 7.7e+05;
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      1 UGCDGHNMD 10
      :||:|:|:|:
Db      11 TGCGAGCAG 2

RESULT 15
US-10-175-608-99/c
; Sequence 99, Application US/10175608
; Publication No. US20040181044A1
; GENERAL INFORMATION:
; APPLICANT: Zeebo, Kristina M.
; APPLICANT: Bosselman, Robert A.
; APPLICANT: Suggs, Sidney V.
; APPLICANT: Martin, Francis H.
; TITLE OF INVENTION: Stem Cell Factor
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/175,608
; FILING DATE: 16-Oct-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/635,249
; FILING DATE: 07-AUG-2000
; APPLICATION NUMBER: 09/486,546
; FILING DATE: 24-MAY-1995
; APPLICATION NUMBER: 08/172,329
; FILING DATE: 21-DEC-1993
; APPLICATION NUMBER: 07/982,255
; FILING DATE: 25-NOV-1992
; APPLICATION NUMBER: 07/684,535
; FILING DATE: 10-APR-1991
; APPLICATION NUMBER: 09/589,701
; FILING DATE: 10-OCT-1991
; APPLICATION NUMBER: 07/573,616
; FILING DATE: 24-AUG-1990
; APPLICATION NUMBER: 07/537,198
; FILING DATE: 11-JUN-1990
; APPLICATION NUMBER: 07/422,383
; FILING DATE: 16-OCT-1989
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ATTORNEY/AGENT INFORMATION:  
NAME: Clough, David W.  
REGISTRATION NUMBER: 36,107  
REFERENCE/DOCKET NUMBER: 01017/35199  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312/474-6300  
TELEFAX: 312/474-0448  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 99:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 99:  
US-10-175-608-99

Query Match 62.0%; Score 6.2; DB 17; Length 11;  
Best Local Similarity 40.0%; Pred. No. 7.7e+05;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
QY 1 UGCDGGHMD 10  
:||:|:|:|:  
Db 11 TCCAGGAGAT 2

Search completed: October 19, 2004, 16:13:07  
Job time: 261 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 19, 2004, 14:44:01 ; Search time 2180 Seconds  
(without alignments)  
167.155 Million cell updates/sec

Title: US-09-762-648-4  
Perfect score: 10  
Sequence: 1 UGCGGSHMMD 10

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues  
Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :  
EST:  
1: gb\_est1:  
2: gb\_est2:  
3: gb\_hnc:  
4: gb\_est3:  
5: gb\_est4:  
6: gb\_est5:  
7: gb\_est6:  
8: gb\_gsa1:  
9: gb\_gsa2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	6.2	62.0	10	CL437053	PST4390-N
2	6.2	62.0	13	AJ594173	Arabidops
3	6.2	62.0	19	AZ422762	1M0201P12
4	6.2	62.0	19	AZ791433	2M0041A24
5	6.2	62.0	19	AZ800056	2M0057E20
6	6.2	62.0	19	CL435787	PST1409-N
7	6.2	62.0	20	AZ308311	1M0011J12
8	6.2	62.0	20	AZ590589	1M0400G15
9	6.2	62.0	20	AZ630221	1M0483K12
10	6.2	62.0	20	AZ789903	2M0038F15
11	6.2	62.0	21	COT90328	NT009B_E1
12	6.2	62.0	21	AZ594960	1M0407E16
13	6.2	62.0	21	AZ776814	2M0010T17
14	6.2	62.0	21	AZ819369	2M0089O21
15	6.2	62.0	22	AZ307716	1M0009N02
16	6.2	62.0	22	AZ309912	1M0017P15
17	6.2	62.0	22	AZ416988	1M0192P23
18	6.2	62.0	22	AZ501345	1M0340I11
19	6.2	62.0	22	AZ610074	1M0345J11
20	6.2	62.0	22	AZ822589	2M0095P21
21	6.2	62.0	23	BG927951	HNC45-1-F
22	6.2	62.0	23	AZ472899	1M0288L22
23	6.2	62.0	23	AZ632990	1M0487M19
24	6.2	62.0	23	AZ810074	2M0074J19

c	25	6.2	62.0	23	8	AZ977634	AZ977634	2M0253C10
c	26	6.2	62.0	23	9	TA121C07P	TA121C07P	Arabidops
c	27	6.2	62.0	23	9	TA278H12P	TA278H12P	Arabidops
c	28	6.2	62.0	23	9	CL670300	CL670300	Arabidops
c	29	6.2	62.0	23	9	AG195455	AG195455	Arabidops
c	30	6.2	62.0	24	1	AL045569	DKF2P434M	Arabidops
c	31	6.2	62.0	24	5	BO589506	E012561-0	Arabidops
c	32	6.2	62.0	24	8	AZ308017	1M0010M05	Arabidops
c	33	6.2	62.0	24	8	AZ492799	1M0327B10	Arabidops
c	34	6.2	62.0	24	8	AZ505865	1M0346C18	Arabidops
c	35	6.2	62.0	24	8	AZ821309	2M0094G05	Arabidops
c	36	6.2	62.0	24	9	TA120A03P	TA120A03P	Arabidops
c	37	6.2	62.0	24	9	AG187929	AG187929	Arabidops
c	38	6.2	62.0	25	1	AA880566	vx41C05_r	Arabidops
c	39	6.2	62.0	25	1	AA923337	0144e07.8	Arabidops
c	40	6.2	62.0	25	1	AA974358	0Q14F08.8	Arabidops
c	41	6.2	62.0	25	5	BO594927	S015257-0	Arabidops
c	42	6.2	62.0	25	8	AZ414090	1M0188F21	Arabidops
c	43	6.2	62.0	25	8	AZ510410	1M0354H21	Arabidops
c	44	6.2	62.0	25	8	AZ769533	1M0570D22	Arabidops
c	45	6.2	62.0	25	9	AJ592851	AJ592851	Arabidops

## ALIGNMENTS

RESULT 1  
LOCUS CL437053/c  
DEFINITION PST4390-NR.Seg MICB1 Mus musculus genomic clone PST4390-NR.Seg,  
genomic survey sequence.  
VERSION CL437053.1 GI:45572462  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus

## REFERENCE

AUTHORS Hicks, G.G.  
TITLE www.Escellis.ca  
JOURNAL Unpublished (2002)  
COMMENT Contact: Hicks GG

## COMMENT

Mammalian Functional Genomics Centre  
Manitoba Institute of Cell Biology, University of Manitoba  
ON5029, 675 McDermot Ave, Winnipeg, MB R3B 0V9, Canada  
Tel: 204 787 2133  
Fax: 204 787 2190  
Email: hicksgg@cc.umanitoba.ca

U3neosl gene trap. Tag generated by plasmid rescue. Additional  
sequence information and target gene cloning can be generated. ES  
cell line harboring insertion mutation of target gene is available.  
Sequence analysis available from  
http://140.193.242.7/esdb/public\_search\_frame.php?PST=PST4390-NR.Se

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Class: Gene Trap.  
Location/Qualifiers

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/clone="PST4390-NR.Seg"  
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/note="Vector: U3neosl"

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Query Match 62.0%; Score 6.2; DB 9; Length 10;  
Best Local Similarity 40.0%; Pred. No. 3.3e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGCHMD 10  
 Db 10 TGCAGGACAT 1

RESULT 2  
 LOCUS A2594173  
 DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone 393H08, genomic survey sequence.

ACCESSION A2594173  
 VERSION A2594173.1 GI:37943797  
 KEYWORDS GSS; left border; T-DNA flanking sequence.  
 SOURCE Arabidopsis thaliana (thale cress)  
 ORGANISM Arabidopsis thaliana  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

REFERENCE 1  
 Brunaud, V., Balzerque, S., Dubreucq, B., Aubourg, S., Samson, F., Chauvin, S., Bechold, N., Criaud, C., Derose, R., Pelletier, G., Lepoint, L., Caboche, M. and Lecharny, A.  
 T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)

JOURNAL MEDLINE 2263535  
 PUBMED 1246565

REFERENCE 2 (bases 1 to 13)  
 Balzerque, S.  
 Direct Submision  
 Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE  
 PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences mutant line and a link to a database providing a graphical display of the insertion site are available at <http://dbgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomes program 'genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infbioingen.fr>).

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 /organism="Arabidopsis thaliana"  
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 /db\_xref="taxon:3702"  
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 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1..13  
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 left border"

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 Best Local Similarity 40.0%; Pred. No. 3.4e+06;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGCHMD 10  
 Db 1 TGCCTGTGTA 10

RESULT 3  
 LOCUS A2422762  
 DEFINITION 19 bp DNA linear GSS 03-OCT-2000  
 clone UGCI0201P12 R, genomic survey sequence.

ACCESSION A2422762  
 VERSION A2422762.1 GI:10546871

KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 19)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Irlam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Rellily, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A. and Wright, D. Weis, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)

TITLE  
 JOURNAL  
 COMMENT  
 Contact: Robert B. Weis  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel.: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0201 row: P column: 12  
 Seq primer: CACACGGAACACGCTATGACC  
 Clase: plasmid ends  
 High quality sequence stop: 19.

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 /organism="Mus musculus"  
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 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UGCI0201P12"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UGCI01 library"  
 /note="Vector: PWD42ny, Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (GI:4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN  
 Query Match 62.0%; Score 6.2; DB 8; Length 19;  
 Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 UGCDGCHMD 10  
 Db 18 TGCAGGACCA 9

RESULT 4  
 LOCUS A2791433  
 DEFINITION 19 bp DNA linear GSS 16-FEB-2001  
 clone UUGC2M0041A24 F, genomic survey sequence.

ACCESSION A2791433  
 VERSION A2791433.1 GI:12934312



**KEYWORDS**  
GSS.  
Mus musculus (house mouse)

**SOURCE**  
Mus musculus

**ORGANISM**  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scurionathi; Muridae; Murinae; Mus.

**REFERENCE**  
1 (bases 1 to 19)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

**AUTHORS**  
Unpublished (2000)

**TITLE**  
Unpublished (2000)

**JOURNAL**  
Contract: Robert B. Weiss

**COMMENT**  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0041 row: A column: 24  
Seq primer: CCGTGTAAACGACGCGCCAGT  
Class: plasmid ends

**FEATURES**  
High quality sequence stop: 19.  
Location/Qualifiers  
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/clone\_lib="Mouse 10kb plasmid UUCG1M library"  
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

**ORIGIN**  
Query Match 62.0%; Score 6.2; DB 8; Length 19;  
Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
QY 1 UUCDGGHMD 10  
:|:|:|:|:|:  
Db 6 TGCAGGCACT 15

**RESULT 5**  
AZ800056 19 bp DNA linear GSS 16-FEB-2001  
LOCUS  
DEFINITION 2M0057820R Mouse 10kb plasmid UUCG1M library Mus musculus genomic clone UUCG2M0057820 R, genomic survey sequence.  
ACCESSION  
AZ800056  
VERSION AZ800056.1 GI:12951797

**KEYWORDS**  
GSS.  
Mus musculus (house mouse)

**SOURCE**  
Mus musculus

**ORGANISM**  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scurionathi; Muridae; Murinae; Mus.

**REFERENCE**  
1 (bases 1 to 19)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

**AUTHORS**  
Unpublished (2000)

**TITLE**  
Unpublished (2000)

**JOURNAL**  
Contract: Robert B. Weiss

**COMMENT**  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0057 row: B column: 20  
Seq primer: CACACAGGAACAGCTATGACC  
Class: plasmid ends

**FEATURES**  
High quality sequence stop: 19.  
Location/Qualifiers  
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/db\_xref="taxon:10090"  
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/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUCG1M library"  
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

**ORIGIN**  
Query Match 62.0%; Score 6.2; DB 8; Length 19;  
Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
QY 1 UUCDGGHMD 10  
:|:|:|:|:|:  
Db 3 TCGTGGAAAT 12

**RESULT 6**  
CL435787 19 bp DNA linear GSS 18-MAR-2004  
LOCUS  
DEFINITION PST1409-NL-seq MICB1 Mus musculus genomic clone PST1409-NL-seq similar to Spat1, genomic survey sequence.  
ACCESSION  
CL435787  
VERSION CL435787.1 GI:45569831

KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 19)  
AUTHORS Hicks,G.G.  
TITLE www.Escellie.ca  
JOURNAL Unpublished (2002)  
COMMENT Contact: Hicks GG  
Mammalian Functional Genomics Centre  
Manitoba Institute of Cell Biology, University of Manitoba  
ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada  
Tel: 204 787 2133  
Fax: 204 787 2190  
Email: hicks@cc.umanitoba.ca  
U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional sequence information and target gene cloning can be generated. ES cell line harboring insertion mutation of target gene is available. Sequence analysis available from  
http://140.193.242.7/eesdb/public\_search\_frame.php?PST=PST1409-NL.se

Class: Gene Trap.  
Location/Qualifiers  
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/sex="Male"  
/cell\_type="Embryonic stem cell"  
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ORIGIN  
Query Match 62.0%; Score 6.2; DB 9; Length 19;  
Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
QY 1 UGCDGSHMD 10  
4 TCGTGTGTAT 13

RESULT 7  
AZ308311 20 bp DNA linear GSS 29-SEP-2000  
LOCUS 1M001J12F Mouse 10kb plasmid UGCM library Mus musculus genomic  
DEFINITION clone UGCM001J12 F, genomic survey sequence.  
ACCESSION AZ308311  
VERSION AZ308311.1 GI:10348177  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)  
REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
AUTHORS Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
TITLE Unpublished (2000)  
JOURNAL Contact: Robert B. Weiss  
COMMENT University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0011 row: 3 column: 12  
Seq primer: CGTGTAAACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 20.  
Location/Qualifiers  
1..20  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UGCM001J12"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UGCM library"  
/note="Vector: PWD42nv. Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g14732114|9b|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN  
Query Match 62.0%; Score 6.2; DB 8; Length 20;  
Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
QY 1 UGCDGSHMD 10  
11 TGCAGGCCAG 20

RESULT 8  
AZ590589 20 bp DNA linear GSS 13-DEC-2000  
LOCUS 1M040G15F Mouse 10kb plasmid UGCM library Mus musculus genomic  
DEFINITION clone UGCM0400G15 F, genomic survey sequence.  
ACCESSION AZ590589  
VERSION AZ590589.1 GI:11712779  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)  
REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
AUTHORS Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
TITLE Unpublished (2000)  
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COMMENT University of Utah Genome Center  
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Tel: 801 585 5606  
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0400 row: G column: 15  
 Seq primer: CCTGTAAAACAGCAGCCAGCT  
 Class: plasmid ends  
 High quality sequence stop: 20.

## FEATURES

source

1. 20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUCG1M0400G15"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUCG1M library"  
 /note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match

Best Local Similarity 62.0%; Score 6.2; DB 8; Length 20;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

1 UGCDGHNMD 10  
 |||:|:|:|:  
 20 TGCAGATCA 11

Db 20 TGCAGATCA 11

RESULT 9  
 A2630221

LOCUS 20 bp DNA linear GSS 13-DEC-2000

DEFINITION IM0483K12R Mouse 10kb plasmid UUCG1M library Mus musculus genomic

ACCESSION A2630221

VERSION A2630221.1 GI:11752411

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus (house mouse)

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 20)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von

Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0483 row: K column: 12  
 Seq primer: CACACAGGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

## FEATURES

source

1. 20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUCG1M0483K12"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUCG1M library"  
 /note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match

Best Local Similarity 62.0%; Score 6.2; DB 8; Length 20;  
 Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

1 UGCDGHNMD 10  
 |||:|:|:|:  
 2 TGTGTGATCA 11

Db 2 TGTGTGATCA 11

RESULT 10  
 A2789903

LOCUS 20 bp DNA linear GSS 16-FEB-2001

DEFINITION 2M0038F15F Mouse 10kb plasmid UUCG1M library Mus musculus genomic

ACCESSION A2789903

VERSION A2789903.1 GI:12931404

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus (house mouse)

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 20)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von

Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: [ddum@genetics.utah.edu](mailto:ddum@genetics.utah.edu)  
Insert Length: 10000 Std Error: 0.00  
Plate: 0038 Row: F Column: 15  
Seq primer: CGTTGTAACGACGCGCCAGT  
Class: plasmid ends  
High quality sequence stop: 20.

## FEATURES

**Source**

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1. .20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCM0038F15"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGCM library"
/notes="Vector: pMD24; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson

```

**ORIGIN**

Query Match	62.0%;	Score 6.2;	DB 8;	Length 20;
Best Local Similarity	40.0%;	Pred. No. 3.5e+06;		
Matches	4;	Conservative	5;	Mismatches 1;
				Indels 0;
				Gaps 0;

QY	1	UGCDGGHNM	10
	:	:	::
Db	8	TGCAGGCACT	17

RESULT 11			
CO790328/c			
LOCUS	21 bp	mRNA	linear
DEFINITION	NT0095.E10	Sc18-22 Neural tube (NT)	Ambystoma mexicanum CDNA 5'
			similar to hypothetical protein, mRNA sequence.

REFERENCE 1 (bases 1 to 21)  
 AUTHORS Habermann, B., Bebin, A.G., Herklotz, S., Volkmner, M., Eckelt, K.,  
 Pehlke, K., Epperlein, H.H., Schackert, H.K., Wiebe, G. and Tanaka, E.M.  
 TITLE An Ambystoma mexicanum EST sequencing project: Analysis of 17,352

Email: tanaka@mpl-cbg.de  
 Plate: NT009B row: 10 column: E  
 Seq primer: GCA CAT TAG GCC TAT TTA GGT GAC A  
 Location/Qualifiers

## FEATURES

## Bources

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/organism="Ambystoma mexicanum"
/mol_type="mRNA"
/db_xref="taxon:8296"
/tissue_type="Neutral tube, Notochord, Somites"
/cell_type="Includes Neutral tube, notochord, somites"
/dev_stage="Stage 18-22"
/clone_lib="Srl8-22 Neutral tube (NT)"
/notes="Vector: pCMVSPORT6; Site_1: NotI; Site_2: SalI;
Unnormalized cDNA plasmid library prepared by Invitrogen
Size fractionated mRNA was polydT primed and cloned into
NotI-SalI site of pCMVSPORT6. Bacterial host is
EMDH108-TONA. Average insert size is 1.5 kb.
TAG_Lib=NT"

```

## ORIGIN

Query Match	62.0%	Score 6.2	DB 7	Length 21
Best Local Similarity	40.0%	Pred. No. 3.5e+06		
Matches	4	Conservative	5	Mismatches 1
				Indels 0
				Gaps 0

```

ay      1 UGCDGGHNM 10
          |||:::
Db     15 TGCAGGTGA 6

```

RESULT	12
AZ594960	
LOCUS	
DEFINITION	21 bp DNA linear GSS 13-DEC-2000
	M0407E16 Mouse 10kb plasmid UOCCIM library Mus musculus genomic
	clone UOCCIM0407E16 F, genomic survey sequence.

REFERENCE  
AUTHORS  
1 (bases 1 to 21)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

**TITLE**  
Neuhausse, M. and Wright, C. (2013).  
Mouse genome scaffolding with paired end reads from 10kb  
plasmid inserts

University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA

Seq primer: CGTTGTAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 21.

## FEATURES

**Source**

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/organism="Mus musculus"
/mol_type="Genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCIM0407E16"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_name="Mouse 10kb plasmid UUCIM library"
/notes="Vector: pMouse10b, Purified genomic DNA from M.

```

musculus 57BL/6J (male) was obtained from the Jackson Laboratory Mouse Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF12072.1), a copy-number of pMD42 (gi|4732114|gb|AF12072.1). The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

**ORIGIN**

Query Match	62.0%	Score 6.2	DB 8	Length 21
Best Local Similarity	40.0%	Pred. No. 3.5e+06		
Matches	4	Conservative	5	Mismatches 1
				Indels 0
				Gaps 0

Qy	1	UCGCDGGHNM	10
		:  : :	::
Db	10	TGCTGTACT	19

RESULT 14

LOCUS	AZ819369	21 bp	DNA	linear	GSS 20-FEB-2001
DEFINITION	M008902R Mouse 10kb plasmid U06C1M library Mus musculus genomic clone U06C2M0089021 R, genomic survey sequence.				

ACCESSION	AZ819369
VERSION	AZ819369.1
	GI:12989277

KEYWORDS	GSS.
SOURCE	Mus musculus (house mouse)

ORGANISM

REFERENCE  
1 (bases 1 to 21)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Euteleostomi; Rodentia; Sciurognathi; Muridae; Mus.

## AUTHORS

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A. and Wright, D., Weiss, R.

TITLE
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

**JOURNAL** Unpublished (2000)  
**COMMENT** Contact: Robert B. Weiss

University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA

Tel: 801 585 5606  
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00

Plate: 0089 row: 0 column: 21  
Seq primer: CACACAGGAACAGCTATGACC

Class: plasmid ends  
High quality sequence stop: 21.

## FEATURES

**Source**

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/strain="C57BL/6J"
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/db xref="taxon:10090"
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/c1one="UUGC2M0089021"
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```
/sex="Male"
```

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/lab_host="E. Coli Strain
```

```
/clone_lib="Mouse 10kb F
```

```
/note="Vector: PWD42nv;
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musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (GI4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 62.0%; Score 6.2; DB 8; Length 21;  
Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGSHNMD 10  
:||||:|:  
Db 4 TGCTGGAGACA 13

## RESULT 15

AZ307716 22 bp DNA linear GSS 29-SEP-2000  
LOCUS LM0009N02R Mouse 10kb plasmid UGCGM library Mus musculus genomic  
DEFINITION clone UGCGM0009N02 R, genomic survey sequence.  
ACCESSION AZ307716  
VERSION AZ307716.1 GI:10346985  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus

REFERENCE  
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
Niederhausen, A. and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)

JOURNAL  
COMMENT Contact: Robert B. Weiss  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: [ddunne@genetics.utah.edu](mailto:ddunne@genetics.utah.edu)  
Insert Length: 10000 Std Error: 0.00  
Plate: 0009 row: N column: 02  
Seq primer: CACACAGGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 22.  
Location/Qualifiers  
1. .22

FEATURES  
SOURCE  
1. .22  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UGCGM0009N02"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UGCGM library"  
/note="Vector: pMD42nv, Purified genomic DNA from M.

## ORIGIN

Query Match 62.0%; Score 6.2; DB 8; Length 22;  
Best Local Similarity 40.0%; Pred. No. 3.5e+06;  
Matches 4; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1 UGCDGSHNMD 10  
:||||:|:  
Db 17 TGCAGAGAG 8

Search completed: October 19, 2004, 16:07:31  
Job time : 2183 secs

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (GI4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."